



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/796,647	03/09/2004	John G. Tracy	9060-217	2190
7590	06/30/2005		EXAMINER	
Robert M. Meeks Myers Bigel Sibley & Sajovec Post Office Box 37428 Raleigh, NC 27627				PATEL, RAJNICKANT B
		ART UNIT		PAPER NUMBER
		2838		

DATE MAILED: 06/30/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Gm

Office Action Summary	Application No.	Applicant(s)	
	10/796,647	TRACY ET AL.	
	Examiner	Art Unit	
	Rajnikant B. Patel	2838	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 09 March 2004.
 2a) This action is FINAL. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-24 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) Claim(s) _____ is/are allowed.
 6) Claim(s) 1-24 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
 Paper No(s)/Mail Date 3/04 and 6/04.

4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____.
 5) Notice of Informal Patent Application (PTO-152)
 6) Other: _____.

DETAILED ACTION

Claim Objections

1. Claim 8 is objected to because of the following informalities: the phrase "respect three-phase half bridge circuit is not clear, further explanation required. Appropriate correction is required.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) The invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

(e) The invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000.

Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

2. Claims 1-2 and 13-14 are rejected under 35 U.S.C. 102(e) as being anticipated by Taimela (U.S. Patent # 6,906,933. Taimela discloses the claimed invention a uninterruptible power supply (figure 1-5), including a first bidirectional power converter circuit (figure 5, item 510), a first and second ports (figure 5, item 501 and 512a-b respectively), a second bidirectional power converter (figure 5, item 520), a first and second ports of second converter (figure 5, item 15a-b and 502 respectively), a DC link coupling and a second load port coupled to the first port (figure 5, item VDC1 and VDC2) and a control circuit (figure 5, item 540).

In regard to claims 2,5-12 and 14,17-24, Taimela discloses claimed subject matters such as "power converter circuits is selectively operable to generate AC power (claim 18), and an auxiliary DC power source (figure 5, item 560), a power factor control (Abstract, line 10-19), a three phase circuit (figure 5, item 220), a standby or interactive (column 1, line 10-20), an uninterrupted power (column 3, line 20-25), an AC power at first load port (Abstract, line 1-5).

In regards to claims 3-4 and 15-16, Taimela discloses claimed invention except for the control circuit operative to selectively provide each of one to nine modes of operation. It would have been obvious one having an ordinary skill in the art at the time the invention made to utilize only one or two operating mode, since it has been held that

were the general condition of claims are disclosed in the prior art, discovering the workable mode selection involves only routine skill in the art, *In re Aller*, 105 USPQ 223.

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-2 and 13-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wade et al. (U.S. Patent # 6,605,879) in combination with Johnson, Jr. (U.S. Patent # 6,483,730).

Wade et al. discloses the claimed invention a uninterruptible power supply (figure 4-6), including a first bidirectional power converter circuit (figure 4, item 30), a first and second ports (figure 4, item on side 22 and on side of 30 respectively), a second bidirectional power converter (figure 4, item 32), a first and second ports of second converter (figure 4 , item on side 32 and on side 34 respectively), a DC link coupling and a second load port coupled to the first port (figure 4, item 26). However Wade et al. doesn't disclose the utilization of the technique for a control circuit configured to control first and second bidirectional power converter circuits. Johnson, Jr. teaches the utilization of the similar technique for a control circuit configured to control first and second bidirectional power converter circuits (figure 5, item 552). It would have been

obvious one having an ordinary skill in the art at the time the invention was made to modify Taimela's power supply for the purpose of increasing the efficiency of the power supply.

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rajnikant B. Patel whose telephone number is 571-272-2082. The examiner can normally be reached on 6.30-5.00; m-f.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Sherry can be reached on 571-272-2084. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Rajnikant B Patel
Primary Examiner
Art Unit 2838
